Marcus Frohme

List of Publications by Year
in descending order

91 papers	3,183 citations	186265 28 h-index	168389 53 g-index
110 all docs	110 docs citations	110 times ranked	4348 citing authors

#	Article	IF	Citations
1	A novel strategy for high-throughput sample collection, analysis and visualization of explosivesâ€™ concentrations for contaminated areas. International Journal of Environmental Science and Technology, 2023, 20, 1399-1410.	3.5	1
2	A Novel Water-Soluble C60 Fullerene-Based Nano-Platform Enhances Efficiency of Anticancer Chemotherapy. , 2022, , 59-93.		0
3	Examination of blood samples using deep learning and mobile microscopy. BMC Bioinformatics, 2022, 23, 65.	2.6	6
4	Spatiotemporal analysis of cutaneous leishmaniasis in Palestine and foresight study by projections modelling until 2060 based on climate change prediction. PLoS ONE, 2022, 17, e0268264.	2.5	3
5	The ElonginB/C-Cullin5-SOCS-Box-Complex Is a Potential Biomarker for Growth Hormone Disorders. Biomedicines, 2021, 9, 201.	3.2	2
6	Microsatellite based molecular epidemiology of Leishmania infantum from re-emerging foci of visceral leishmaniasis in Armenia and pilot risk assessment by ecological niche modeling. PLoS Neglected Tropical Diseases, 2021, 15, e0009288.	3.0	4
7	Cis-Palladium(II) complex incorporating 3-(2-pyridyl)-5-methyl-1,2,4-triazole: structure and cytotoxic activity. Chemical Papers, 2021, 75, 4899-4906.	2.2	4
8	Isothermal amplifications â€“ a comprehensive review on current methods. Critical Reviews in Biochemistry and Molecular Biology, 2021, 56, 543-586.	5.2	68
9	Antitumor efficiency of the natural alkaloid berberine complexed with C60 fullerene in Lewis lung carcinoma in vitro and in vivo. Cancer Nanotechnology, 2021, 12, .	3.7	10
10	The role of noncoding RNAs in pituitary adenoma. Epigenomics, 2021, 13, 1421-1437.	2.1	6
11	Variant expression signatures of microRNAs and protein related to growth in a crossbreed between two strains of Nile tilapia (Oreochromis niloticus). Genomics, 2021, 113, 4303-4312.	2.9	2
12	Pepper Bacterial Spot Control by Bacillus velezensis: Bioprocess Solution. Microorganisms, 2020, 8, 1463.	3.6	24
13	Ten simple rules on how to write a standard operating procedure. PLoS Computational Biology, 2020, 16, e1008095.	3.2	13
14	Biomarkers for Liquid Biopsies of Pituitary Neuroendocrine Tumors. Biomedicines, 2020, 8, 148.	3.2	8
15	The need for standardisation in life science research - an approach to excellence and trust.. F1000Research, 2020, 9, 1398.	1.6	7
16	The need for standardisation in life science research - an approach to excellence and trust.. F1000Research, 2020, 9, 1398.	1.6	1
17	Quantification of nitroaromatic explosives in contaminated soil using MALDI-TOF mass spectrometry. Analytical and Bioanalytical Chemistry, 2019, 411, 5993-6003.	3.7	11
18	Complexation with C60 Fullerene Increases Doxorubicin Efficiency against Leukemic Cells In Vitro. Nanoscale Research Letters, 2019, 14, 61.	5.7	35

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19	A Novel Optical Method To Reversibly Control Enzymatic Activity Based On Photoacids. Scientific Reports, 2019, 9, 14372.	3.3	6
20	Synergy of Chemo- and Photodynamic Therapies with C60 Fullerene-Doxorubicin Nanocomplex. Nanomaterials, 2019, 9, 1540.	4.1	32
21	C60 Fullerene as an Effective Nanoplatform of Alkaloid Berberine Delivery into Leukemic Cells. Pharmaceutics, 2019, 11, 586.	4.5	29
22	Photoacids in biochemical applications. Journal of Cellular Biotechnology, 2019, 4, 23-30.	0.5	19
23	In vitroandin vivotoxicity of pristine C₆₀fullerene aqueous colloid solution. Fullerenes Nanotubes and Carbon Nanostructures, 2019, 27, 715-728.	2.1	66
24	Smartphone based mobile microscopy for diagnostics. Journal of Cellular Biotechnology, 2019, 4, 57-65.	0.5	6
25	Toxicity of C60 fullereneâ€“cisplatin nanocomplex against Lewis lung carcinoma cells. Archives of Toxicology, 2019, 93, 1213-1226.	4.2	25
26	A Novel Microtiter Plate Format High Power Open Source LED Array. Photonics, 2019, 6, 17.	2.0	5
27	Re-Emerging foci of visceral leishmaniasis in Armenia â€“ first molecular diagnosis of clinical samples. Parasitology, 2019, 146, 857-864.	1.5	3
28	An improved open-source software platform for high-throughput cultivation of phototrophic microorganisms and its application for salt tolerance experiments. Journal of Cellular Biotechnology, 2019, 5, 103-114.	0.5	0
29	A new triple system DNA-Nanosilver-Berberine for cancer therapy. Applied Nanoscience (Switzerland), 2019, 9, 945-956.	3.1	9
30	LED-based portable light source for photodynamic therapy. , 2019, , .		1
31	C60 Fullerene Effects on Diphenyl-N-(trichloroacetyl)-amidophosphate Interaction with DNA In Silico and Its Cytotoxic Activity Against Human Leukemic Cell Line In Vitro. Nanoscale Research Letters, 2018, 13, 81.	5.7	0
32	Mobile Microscopy and Automated Image Analysis. Optik & Photonik, 2018, 13, 36-39.	0.2	6
33	Standardization and Quality Assurance in Life-Science Research - Crucially Needed or Unnecessary and Annoying Regulation?. Communications in Computer and Information Science, 2018, , 13-20.	0.5	0
34	C60 fullerene accumulation in human leukemic cells and perspectives of LED-mediated photodynamic therapy. Free Radical Biology and Medicine, 2018, 124, 319-327.	2.9	50
35	HPLC-ESI-MS method for C60 fullerene mitochondrial content quantification. Data in Brief, 2018, 19, 2047-2052.	1.0	8
36	Alizarin Red S for Online Pyrophosphate Detection Identified by a Rapid Screening Method. Scientific Reports, 2017, 7, 45085.	3.3	9

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37	A pilot study on fingerprinting Leishmania species from the Old World using Fourier transform infrared spectroscopy. Analytical and Bioanalytical Chemistry, 2017, 409, 6907-6923.	3.7	14
38	Hinge-initiated Primer-dependent Amplification of Nucleic Acids (HIP) â€“ A New Versatile Isothermal Amplification Method. Scientific Reports, 2017, 7, 7683.	3.3	6
39	Engineering of CHO Cells for the Production of Recombinant Glycoprotein Vaccines with Xylosylated N-glycans. Bioengineering, 2017, 4, 38.	3.5	11
40	In Vitro Evaluation of Glycoengineered RSV-F in the Human Artificial Lymph Node Reactor. Bioengineering, 2017, 4, 70.	3.5	4
41	Spatiotemporal and molecular epidemiology of cutaneous leishmaniasis in Libya. PLoS Neglected Tropical Diseases, 2017, 11, e0005873.	3.0	16
42	Standardization and quality management in next-generation sequencing. Applied & Translational Genomics, 2016, 10, 2-9.	2.1	161
43	Experimental taxonomy confirms the environmental stability of morphometric traits in a taxonomically challenging group of microinvertebrates. Zoological Journal of the Linnean Society, 2016, 178, 765-775.	2.3	52
44	Miniaturized Flow-Through Bioreactor for Processing and Testing in Pharmacology. Materials Science Forum, 2016, 879, 236-243.	0.3	0
45	Shining a light on LAMP assays' A comparison of LAMP visualization methods including the novel use of berberine. BioTechniques, 2015, 58, 189-194.	1.8	141
46	Time-dependent expression and activity of cytochrome P450 1s in early life-stages of the zebrafish (Danio rerio). Environmental Science and Pollution Research, 2015, 22, 16319-16328.	5.3	36
47	The use of fluorescence microscopy and image analysis for rapid detection of non-producing revertant cells of Synechocystis sp. PCC6803 and Synechococcus sp. PCC7002. BMC Research Notes, 2015, 8, 160.	1.4	5
48	Intact cell mass spectrometry as a rapid and specific tool for the differentiation of toxic effects in cell-based ecotoxicological test systems. Analytical and Bioanalytical Chemistry, 2015, 407, 7721-7731.	3.7	12
49	High-throughput cultivation and screening platform for unicellular phototrophs. BMC Microbiology, 2014, 14, 239.	3.3	24
50	Screening and genetic characterization of thermo-tolerant Synechocystis sp. PCC6803 strains created by adaptive evolution. BMC Biotechnology, 2014, 14, 66.	3.3	28
51	Reference gene stability in peripheral blood mononuclear cells determined by qPCR and NanoString. Mikrochimica Acta, 2014, 181, 1733-1742.	5.0	9
52	Towards Decrypting Cryptobiosisâ€”Analyzing Anhydrobiosis in the Tardigrade Milnesium tardigradum Using Transcriptome Sequencing. PLoS ONE, 2014, 9, e92663.	2.5	53
53	Characterization of genome methylation patterns in the desert locust Schistocerca gregaria. Journal of Experimental Biology, 2013, 216, 1423-9.	1.7	71
54	Microsatellite marker discovery using single molecule real-time circular consensus sequencing on the Pacific Biosciences RS. BioTechniques, 2013, 55, 253-256.	1.8	24

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55	The Optimal Mutagen Dosage to Induce Point-Mutations in Synechocystis sp. PCC6803 and Its Application to Promote Temperature Tolerance. PLoS ONE, 2012, 7, e49467.	2.5	54
56	Redescriptions of three Milnesium DoyÃ¨re, 1840 taxa (Tardigrada: Eutardigrada: Milnesiidae), including the nominal species for the genus. Zootaxa, 2012, 3154, 1.	0.5	125
57	Induced cytokine response of human PMBC-cultures: Correlation of gene expression and secretion profiling and the effect of cryopreservation. Cellular Immunology, 2012, 272, 144-153.	3.0	13
58	Pushing the detection limits: The evanescent field in surface plasmon resonance and analyte-induced folding observation of long human telomeric repeats. Biosensors and Bioelectronics, 2012, 31, 571-574.	10.1	13
59	Quality and information management in the laboratory. , 2011, , .		1
60	ITSâ€2 and 18S rRNA data from Macrobiotus polonicus and Milnesium tardigradum (Eutardigrada, Tardigrada). Journal of Zoological Systematics and Evolutionary Research, 2011, 49, 34-39.	1.4	47
61	Investigating heat shock proteins of tardigrades in active versus anhydrobiotic state using shotgun proteomics. Journal of Zoological Systematics and Evolutionary Research, 2011, 49, 111-119.	1.4	25
62	Bioinformatics identifies tardigrade molecular adaptations including the DNAâ€j family and first steps towards dynamical modelling. Journal of Zoological Systematics and Evolutionary Research, 2011, 49, 120-126.	1.4	6
63	cDNA representational difference analysis for identifying transcripts regulated under anhydrobiosis in the tardigrade Milnesium tardigradum. Journal of Zoological Systematics and Evolutionary Research, 2011, 49, 127-132.	1.4	5
64	Anhydrobiosis in tardigradesâ€"The last decade. Journal of Insect Physiology, 2011, 57, 577-583.	2.0	140
65	A simple viability analysis for unicellular cyanobacteria using a new autofluorescence assay, automated microscopy, and ImageJ. BMC Biotechnology, 2011, 11, 118.	3.3	79
66	A polymorphic, thrombospondin domain-containing lectin is an oocyte marker in Hydractinia: implications for germ cell specification and sex determination. International Journal of Developmental Biology, 2011, 55, 103-108.	0.6	10
67	Stress response in tardigrades: differential gene expression of molecular chaperones. Cell Stress and Chaperones, 2010, 15, 423-430.	2.9	52
68	The transcriptome of the colonial marine hydroid Hydractiniaâ€ƒechinata. FEBS Journal, 2010, 277, 197-209.	4.7	25
69	Proteomic Analysis of Tardigrades: Towards a Better Understanding of Molecular Mechanisms by Anhydrobiotic Organisms. PLoS ONE, 2010, 5, e9502.	2.5	58
70	Liver-Specific Loss of Lipolysis-Stimulated Lipoprotein Receptor Triggers Systemic Hyperlipidemia in Mice. Diabetes, 2009, 58, 1040-1049.	0.6	44
71	Molecular mechanisms of tolerance in tardigrades: New perspectives for preservation and stabilization of biological material. Biotechnology Advances, 2009, 27, 348-352.	11.7	61
72	Open Architecture PCR-Based Methods for Differential Gene Expression Analysis. Current Pharmaceutical Analysis, 2009, 5, 1-9.	0.6	1

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73	Structural but not functional conservation of an immune molecule: a tachylectin-like gene in Hydractinia. Developmental and Comparative Immunology, 2006, 30, 275-281.	2.3	23
74	Stimulated Expression of mRNAs in Activated T Cells Depends on a Functional CRM1 Nuclear Export Pathway. Journal of Molecular Biology, 2006, 358, 997-1009.	4.2	32
75	Evolution of astacin-like metalloproteases in animals and their function in development. Evolution & Development, 2006, 8, 223-231.	2.0	43
76	A putative double role of a chitinase in a cnidarian: pattern formation and immunity. Developmental and Comparative Immunology, 2004, 28, 973-981.	2.3	41
77	A fragile X mental retardation-like gene in a cnidarian. Gene, 2004, 343, 231-238.	2.2	16
78	Use of Complex DNA and Antibody Microarrays as Tools in Functional Analyses. Comparative and Functional Genomics, 2003, 4, 520-524.	2.0	2
79	Late ischemic preconditioning of the myocardium alters the expression of genes involved in inflammatory response. FEBS Letters, 2003, 547, 51-55.	2.8	22
80	Cardiac ankyrin repeat protein, a negative regulator of cardiac gene expression, is augmented in human heart failure. Biochemical and Biophysical Research Communications, 2002, 293, 1377-1382.	2.1	86
81	Directed Gap Closure in Large-Scale Sequencing Projects. Genome Research, 2001, 11, 901-903.	5.5	11
82	The genome sequence of the plant pathogen Xylella fastidiosa. Nature, 2000, 406, 151-157.	27.8	827
83	Contig Selection in Physical Mapping. Journal of Computational Biology, 2000, 7, 395-408.	1.6	2
84	Mapping analysis of the Xylella fastidiosa genome. Nucleic Acids Research, 2000, 28, 3100-3104.	14.5	18
85	Use of Representational Difference Analysis and cDNA Arrays for Transcriptional Profiling of Tumor Tissue. Annals of the New York Academy of Sciences, 2000, 910, 85-105.	3.8	17
86	Novel technology for detection of genomic and transcriptional alterations in pancreatic cancer. Annals of Oncology, 1999, 10, S64-S68.	1.2	4
87	Strategies for the Detection of Disease Genes in Pancreatic Cancer. Annals of the New York Academy of Sciences, 1999, 880, 122-146.	3.8	5
88	Selective generation of chromosomal cosmid libraries within theTrypanosoma cruzi genome project. Electrophoresis, 1998, 19, 478-481.	2.4	12
89	Hybridization mapping ofTrypanosoma cruzi chromosomes III and IV. Electrophoresis, 1998, 19, 482-485.	2.4	14
90	Isolation of Differentially Expressed Genes by Combining Representational Difference Analysis (RDA) and cDNA Library Arrays. BioTechniques, 1998, 25, 434-438.	1.8	34

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91	Identification of genes with specific expression in pancreatic cancer by cDNA representational difference analysis. , 1997, 19, 97-103.		58